

Name: \_\_\_\_\_

**at1113exam: Expand, factor, and solve quadratics (v217)**

1. Solve the equation.

$$(9x + 2)(5x - 3) = 0$$

2. Expand the following expression into standard form.

$$(9x - 5)(9x + 5)$$

3. Expand the following expression into standard form.

$$(5x + 7)(9x - 8)$$

4. Expand the following expression into standard form.

$$(8x + 5)^2$$

5. Factor the expression.

$$49x^2 - 64$$

6. Factor the expression.

$$x^2 - x - 56$$

7. Solve the equation with factoring by grouping.

$$12x^2 - 8x + 15x - 10 = 0$$

8. Solve the equation.

$$7x^2 - 36x + 3 = 2x^2 - 5x - 3$$